

PTO-1449	Application No. 09/885,678	Applicant(s) Mohammed N. Islam et al.	
Information Disclosure Citation In an Application	Docket Number 069204.0107	Group Art Unit 2635 2874	Filing Date June 20, 2001

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>ADL</i> A	4,700,889	10/13/1987	Gordon et al.	370	3	01/28/1986
<i>ADL</i> B	4,740,974	04/26/1988	Byron	372	3	12/11/1985
<i>ADL</i> C	4,923,291	05/08/1990	Edagawa et al.	350	389	07/15/1988
<i>ADL</i> D	4,932,739	06/12/1990	Islam	350	96.15	09/25/1989
<i>ADL</i> E	4,995,690	02/26/1991	Islam	350	96.15	04/24/1989
<i>ADL</i> F	5,020,050	05/28/1991	Islam	370		10/13/1989
<i>ADL</i> G	5,078,464	01/07/1992	Islam	385	122	05/10/1991
<i>ADL</i> H	5,101,456	03/31/1992	Islam	385		
<i>ADL</i> I	5,115,488	05/19/1992	Islam et al.	385	129	05/10/1991
<i>ADL</i> J	5,224,194	06/29/1993	Islam	385	122	04/02/1991
<i>ADL</i> K	5,369,519	11/29/1994	Islam	359	173	02/05/1993
<i>ADL</i> L	5,477,555	12/19/1995	Debeau et al.	372	25	01/21/1994
<i>ADL</i> M	5,479,291	12/26/1995	Smith et al.	359	333	04/08/1994
<i>ADL</i> N	5,485,536	01/16/1996	Islam	385	31	10/13/1994
<i>ADL</i> O	5,497,386	03/05/1996	Fontana	372	18	09/15/1994
<i>ADL</i> P	5,577,057	11/19/1996	Friskien	372	18	09/20/1993
<i>ADL</i> Q	5,664,036	09/02/1997	Islam	385	31	10/12/1995
<i>ADL</i> R	5,734,665	03/31/1998	Jeon et al.	372	6	09/18/1996
<i>ADL</i> S	5,757,541	05/26/1998	Fidric	359	341	01/15/1997

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						YES	NO
<i>ADL</i> T	00/27054	11.05.2000	WO	H04B	10/04	X	

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<i>ADL</i> U.	Stolen et al., "Parametric Amplification and Frequency Conversion in Optical Fibers," IEEE Journal of Quantum Electronics, Vol. QE-18, No. 7, pp. 1062-1072	07/1982
<i>ADL</i> V	Inoue et al., "Wavelength Conversion Experiment Using Fiber Four-Wave Mixing," IEEE Photonics Technology Letters, Vol. 4, No. 1, pp. 69-72	01/1992
<i>ADL</i> W	Inoue, "Four-Wave Mixing in an Optical Fiber in the Zero-Dispersion Wavelength Region," Journal of Lightwave Technology, Vol. 10, No. 11, pp. 1553-1561	11/1992
<i>ADL</i> X	Tatham et al., "20-nm Optical Wavelength Conversion Using Nondegenerate Four-Wave Mixing," IEEE Photonics Technology Letter, Vol. 5, No. 11, pp. 1303-1305	11/1993
<i>ADL</i> Y	Mori et al., "Group velocity dispersion measurement using supercontinuum picosecond pulses generated in an optical fibre," Electronics Letter, Vol. 29, No. 11, pp. 987-988	05/27/1993
<i>ADL</i> Z	Jopson et al., "Polarisation-independent phase conjugation of lightwave signals," Electronics Letters, Vol. 29, No. 25, pp. 2216-2217	12/09/1993

EXAMINER

DATE CONSIDERED

*John D. Lee**03 JULY 2003*

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<i>ADD</i>	A	5,778,014	07/07/1998	Islam	372	6	12/23/1996
<i>ADD</i>	B	5,796,909	08/18/1998	Islam	385	147	02/14/1996
<i>ADD</i>	C	6,043,927	03/28/2000	Islam	359	332	01/16/1998
<i>ADD</i>	D	6,049,415	04/11/2000	Grubb et al.	359	341	12/08/1997
<i>ADD</i>	E	6,052,393	04/18/2000	Islam	372	6	07/19/98
<i>ADD</i>	F	6,101,024	08/08/2000	Islam et al.	359	334	03/24/1998
<i>ADD</i>	G	6,118,566	09/12/2000	Price	359	181	11/04/1998
<i>ADD</i>	H	6,229,937 B1	05/08/2001	Nolan et al.	385	24	06/24/1999
<i>ADD</i>	I	6,239,902 B1	05/29/2001	Islam et al.	359	334	05/24/2000
<i>ADD</i>	J	6,239,903 B1	05/29/2001	Islam et al.	359	337	04/25/2000
<i>ADD</i>	K	6,335,820 B1	01/01/2002	Islam	359	334	12/23/1999
<i>ADD</i>	L	6,356,384 B1	03/12/2002	Islam	359	334	04/11/2000
<i>ADD</i>	M	6,359,725 B1	03/19/2002	Islam	359	334	12/23/1999
<i>ADD</i>	N	6,370,164 B1	04/09/2002	Islam	372	6	04/17/2000
<i>ADD</i>	O	6,374,006 B1	04/16/2002	Islam et al.	385	15	03/19/1999
<i>ADD</i>	P	6,381,391 B1	04/30/2002	Islam et al.	385	123	12/03/1999
<i>ADD</i>	Q						

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<i>ADD</i>	S	Morioka et al., "Multi-WDM-Channel, Gbit/s Pulse Generation from a Single Laser Source Utilizing LD-Pumped Supercontinuum in Optical Fibers," IEEE Photonics Technology Letters, Vol. 6, No. 3, pp. 365-368	03/1994
<i>ADD</i>	T	Inoue et al., "Polarisation insensitive wavelength conversion using a light injected DFB-LD with a loop configuration," Electronics Letters, Vol. 30, No. 5, pp. 438-439	03/03/1994
<i>ADD</i>	U	Morioka et al., "Tunable error-free optical frequency conversion of a 4ps optical short pulse over 25nm by four-wave mixing in a polarisation maintaining optical fibre," Electronics Letters, Vol. 30, No. 11, pp. 884-885	05/26/1994
<i>ADD</i>	V	Takara et al., "100Gbit/s optical waveform measurement with 0.6ps resolution optical sampling using subpicosecond supercontinuum pulses," Electronics Letters, Vol. 30, No. 14, pp. 1152-1153	07/07/1994
<i>ADD</i>	W	Chung et al., "1.7Gbit/s transmission over 165km of dispersion-shifted fibre using spectrum-sliced fibre amplifier light source," Electronics Letters, Vol. 30, No. 17, pp. 1427-1428	08/18/1994
<i>ADD</i>	X	Lacey et al., "Four-channel WDM optical phase conjugator using four-wave mixing in a single semiconductor optical amplifier," Electronics Letters, Vol. 31, No. 9, pp. 743-744	04/27/1995
<i>ADD</i>	Y	Morioka et al., "100Gbit/s x 4 ch, 100km repeaterless TDM-WDM Transmission using a single supercontinuum source," Electronics Letters, Vol. 32, No. 5, pp. 468-470	02/29/1996
<i>ADD</i>	Z	Marhic et al., "Broadband fiber optical parametric amplifiers," Optics Letters, Vol. 21, No. 8, pp. 573-575	04/15/1996
<i>ADD</i>	AA	Hedekvist et al., "Polarization Dependence and Efficiency in a Fiber Four-Wave Mixing Phase Conjugator with Orthogonal Pump Waves," IEEE Photonics Technology Letters, Vol. 8, No. 6, pp. 776-778	06/1996

EXAMINER <i>John D. Lee</i>	DATE CONSIDERED 03 JULY 2003
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A					
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS
B					
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				
C	White et al., "Optical Fiber Components and Devices," Optical Fiber Telecommunications, Ch. 7, pp. 267-319				
D	Sanjoh et al., "Multiwavelength Light Source with Precise Frequency Spacing Using a Mode-Locked Semiconductor Laser and an Arrayed Waveguide Grating Filter," IEEE Photonics Technology Letters, Vol. 9, No. 6, pp. 818-820				
E	Holloway et al., "Multiwavelength Source for Spectrum-Sliced WDM Access Networks and LAN's," IEEE Photonics Technology Letters, Vol. 9, No. 7, pp. 1014-1016				
F	Lacey et al., "Four-Channel Polarization-Insensitive Optically Transparent Wavelength Converter," IEEE Photonics Technology Letters, Vol. 9, No. 10, pp. 1355-1357				
G	Mori et al., "Flatly broadened supercontinuum spectrum generated in a dispersion decreasing fibre with convex dispersion profile," Electronics Letters, Vol. 33, No. 21, 2 pages				
H	Yang et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification," Electronics Letters, Vol. 33, No. 21, pp. 1812-1813				
I	Okuno et al., "Generation of Ultra-Broad-Band Supercontinuum by Dispersion-Flattened and Decreasing Fiber," IEEE Photonics Technology Letters, Vol. 10, No. 1, pp. 72-74				
J	Veselka et al., "A Multiwavelength Source Having Precise Channel Spacing for WDM Systems," IEEE Photonics Technology Letters, Vol. 10, No. 7, pp. 958-960				
K	Edagawa et al., "Novel Wavelength Converter Using an Electroabsorption Modulator," IEEE Transactions in Electronics, Vol. E81-C, No. 8, pp. 1251-1257				
L	Yang et al., "Crosstalk reduction by carrier suppression in an analogue WDM optical communication system," Electronics Letters, Vol. 34, No. 22, 3 pages				
M	Yamashita et al., "Polarization Independent, All-Fiber Phase Conjugation Incorporating Inline Fiber DFB Lasers," IEEE Photonics Technology Letters, Vol. 10, No. 10, pp. 1407-1409				
N	Kim et al., "Low energy, enhanced supercontinuum generation in high nonlinearity dispersion-shifted fibers," CLEO'99/Wednesday Morning, paper CWA7, pp. 224-225				
O	Nakazawa et al., "Random evolution and coherence degradation of a higher-order optical soliton train in the presence of noise," Optics Letters, Vol. 24, No. 5, pp. 318-320				
P	Grandpierre et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1271-1273				
Q	Yu et al., "Wavelength conversion by use of four-wave mixing in a novel optical loop configuration," Optics Letters, Vol. 25, No. 6, pp. 393-395				
R	Ho et al., "Fiber optical parametric amplifier and wavelength converter with 208-nm gain bandwidth," Thursday Morning/CLEO, pp. 401-402				
S	Yu et al., "All-Optical Wavelength Conversion of Short Pulses and NRZ Signals Based on a Nonlinear Optical Loop Mirror," Journal of Lightwave Technology, Vol. 18, No. 7, pp. 1007-1017				
T	Yu et al., "40 Gbit/s pulsewidth-maintained wavelength conversion based on a high-nonlinearity DSF-NOLM," Electronics Letters, Vol. 36, No. 19, 2 pages				
U	Boyras et al., "10 Gb/s Multiple Wavelength, Coherent Short Pulse Source Based on Spectral Carving of Supercontinuum Generated in Fibers," Journal of Lightwave Technology, Vol. 18, No. 12, pp. 2167-2175				
V	Boyras, "Generation of S-Band Sources for DWDM Applications by Utilizing Nonlinear Effects in Silica Fibers," Department of Electrical Engineering and Computer Science, The University of Michigan at Ann Arbor, Dissertation Thesis Proposal, pp. 1-19 plus 11 drawing pages				
W	Boyras, "Generation of Stable S-Band Sources from Existing WDM Sources in C-Band," Department of Electrical Engineering and Computer Science, The University of Michigan at Ann Arbor, Thesis Proposal, 25 pages				
X	Boyras et al., "MI Based Wavelength Conversion with Low Polarization Sensitivity and X-Talk," Department of Electrical Engineering and Computer Science, The University of Michigan at Ann Arbor, 29 pages				
Y	Walker, "Status and Challenges of Optical Fiber Amplifiers and Lasers," paper MB-1-3, pp. 12-14				
Z	Kawanishi et al., "3 Tbit/s (160 Gbit/s x 19 ch) OTDM/WDM Transmission Experiment," paper PDI, pp. 1-3				
AA	Nowak et al., "Stable 200nm TDM/WDM source based on continuum generation in 2m of fiber," paper TuB3-1, pp. 10-12				
BB	Tashiro et al., "1.5 W Erbium Doped Fiber Amplifier Pumped by the Wavelength Division-Multiplexed 1480 nm Laser Diodes with Fiber Bragg Grating," Optical Transmission Systems Group, paper WC2-1-3, pp. 213-213				
CC	Kim et al., "150+ Channel Ultra DWDM Source with Nx10 GHz Spacing Utilizing Longitudinal Mode Slicing of Supercontinuum," OFC'00, ThA2-1, pp. 5-7				
DD	Pending Patent Application, USSN 09/400,414; entitled "Raman Oscillator Including an Interactive Filter and Amplifiers Utilizing Same," by Mohammed N. Islam et al.				
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